



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D3373-1
Job Sheet 178332



Part No: D3373-1

Job Qty: 20 ea

Part Name: Cam Lock



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/30/18

Job Tracking No:

Due Date: 6/11/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV A IPP A 05.01.05 New issue KJ/JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	20 pcs		6/11/18	0.00	0.00	Purchasing		AT 18/06/04
110	Packaging	20 pcs		6/11/18	0.00	0.00	Packaging2		AT 18/06/04
120	QC	20 pcs		6/11/18	0.00	0.00	QC6		38
130	Packaging	20 pcs		6/11/18	0.00	0.00	Packaging3-1		JUN 06 2018
140	QC21-SA	20 Ea		6/11/18	0.00	0.00	QC21		JUN 06 2018

Part Op 100 - Issue P/O: 40051 For D3373-1 Keyed Unalike P/N: 1770A51 or Alike P/N: 1770A525 Possible
Descriptions: Supplier: McMaster Conformation of Parts Specification sheet is required

110 - Ensure Conformation of Parts Specification sheet is attached

130 - Identify and Stock Identify Keyed Unalike as: D3373-1D Identify Keyed Alike as: D3373-1KA LOCATION : GA

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D3373-1P	Cam Lock	20 pcs (1 ea)	100-Purchasing	507743

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	D3373-1P	20	0	0

Part Specifications

Specifications could not be found.

Plex 5/30/18 8:10 AM Dart.lajeunesse.marie

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

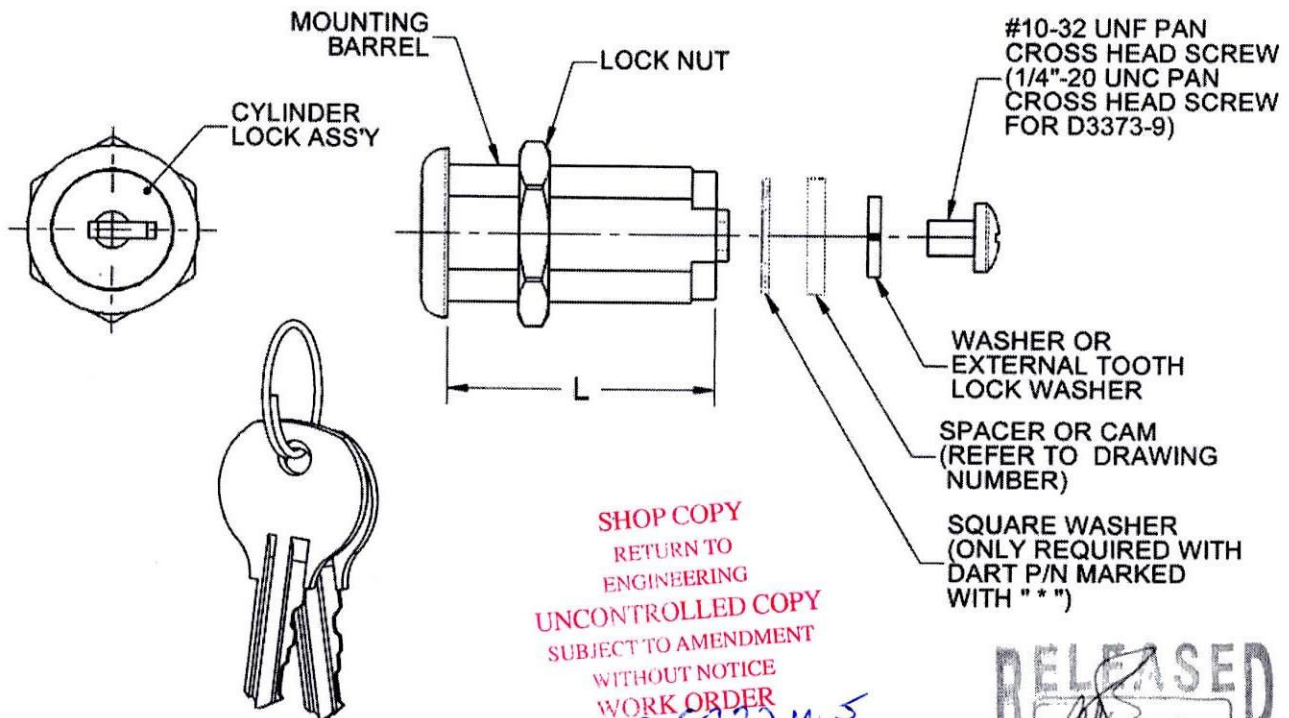
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____ Date : _____ Description Work C	DISPOSITION Rework ☐ Scrap ☐ Use as is ☐	Skid-tube ☐ Machining ☐ Thermoforming ☐	Cross tube ☐ Small Fab ☐ Finishing ☐	Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ plier ☐	Engineering ☐ Quality ☐ Other ☐																																																								
Part: D3873-1 Job No: 178332 Serial No/Batch: S077716 Revision: Inspector: Exp Date: 06/04/2018 Instructions: Part: D3873-1 Job No: 178332 Serial No/Batch: S077716 Container No: S077716 Date: 06/04/18																																																													
MRB (QSI042) Approval																																																													
Completed By																																																													
Lead hand / Supervisor Approval Verification																																																													
QC / QA Coordinator Approval																																																													
Positioned Wrong Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Drawing Finish Misread Turning Sequence																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">Root Cause</th> </tr> </thead> <tbody> <tr> <td>Environment</td><td>☐</td> <td>No Re-verification</td><td>☐</td> </tr> <tr> <td>Design</td><td>☐</td> <td>Operator</td><td>☐</td> </tr> <tr> <td>Doc/Data</td><td>☐</td> <td>Offset/Setup</td><td>☐</td> </tr> <tr> <td>Equip/Tooling</td><td>☐</td> <td>Supplier</td><td>☐</td> </tr> <tr> <td>Handling/Pre</td><td>☐</td> <td>Training</td><td>☐</td> </tr> <tr> <td>Material</td><td>☐</td> <td>Use for Testing</td><td>☐</td> </tr> <tr> <td>Internal Transport</td><td>☐</td> <td>Poor Information</td><td>☐</td> </tr> <tr> <td>Tribal Knowledge</td><td>☐</td> <td>Rushing</td><td>☐</td> </tr> <tr> <td>LOA</td><td>☐</td> <td>Product Improvement</td><td>☐</td> </tr> <tr> <td>Substation</td><td>☐</td> <td>Process Improvement</td><td>☐</td> </tr> <tr> <td>Past Expiry Date</td><td>☐</td> <td>Manufacturing Process</td><td>☐</td> </tr> <tr> <td>Misidentified</td><td>☐</td> <td>Past Due</td><td>☐</td> </tr> <tr> <td colspan="4"> OTHER : _____ </td> </tr> </tbody> </table>						Root Cause				Environment	☐	No Re-verification	☐	Design	☐	Operator	☐	Doc/Data	☐	Offset/Setup	☐	Equip/Tooling	☐	Supplier	☐	Handling/Pre	☐	Training	☐	Material	☐	Use for Testing	☐	Internal Transport	☐	Poor Information	☐	Tribal Knowledge	☐	Rushing	☐	LOA	☐	Product Improvement	☐	Substation	☐	Process Improvement	☐	Past Expiry Date	☐	Manufacturing Process	☐	Misidentified	☐	Past Due	☐	OTHER : _____			
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DART

DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3373	REV. A SHEET 1 OF 1
DATE 04.12.10		TITLE CAM LOCKS SCALE 1:1	
A	04.12.10	NEW ISSUE	

SPECIFICATION CONTROL DRAWING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 178332M5
180570

RELEASED
[Signature]
05/02/11

DART P/N	SUPPLIERS McMASTER OR IDN CANADA P/N	L (in)	REPLACEMENT KEY DART P/N	SPACER/CAM DRAWING NUMBER
D3373-1	1770A51	0.425	D3373-1K-XXXXX	D3369-5
D3373-3	1770A54	0.935	D3373-3K-XXXXX	D3369-5
D3373-5	1770A41	1.435	D3373-5K-XXXXX	D3370-5
D3373-7*	1770A71	1.715	D3373-7K-XXXXX	D3371-5
D3373-9*	35803 ILCO	0.595	D3373-9K-1866-13	D3372-11

To order replacement keys from McMaster, order 1770A2 and specify key number where "XXXXX" represents key number for 3/4" diameter lock.
Eg: D3373-1K-C377A, oder P/N 1770A2-C377A.

NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Misabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040051

Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO040051

PO Date: 5/30/18

Due Date: 6/1/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
MAY 30 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: 2% 10 Net 30
Freight Terms:
Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	8569K23	6" x 2 ft	Teflon PTFE Plastic 0.020" receive ea	Firmed	6/1/18	5 sf	0 sf	5 sf	\$19.08333/sf	\$95.42
Line Item Note 1 PCS OF 6"X10FT										
2	84735K117	50/pk	Cap receive ea	Firmed	6/1/18	100 Ea	0 Ea	100 Ea	\$0.2758/Ea	\$27.58
3	92198A111	25/pk	Bolt receive ea	Firmed	6/1/18	25 Ea	0 Ea	25 Ea	\$0.2124/Ea	\$5.31
4	8610K12		Rubber Sheet, 36" x 36" x 1/8" Thick	Firmed	6/1/18	9 sf	0 sf	9 sf	\$22.09/sf	\$198.81
Line Item Note 1 PCS OF 36" X 36"										
5	RBEL135M-2905-101-39	9003K41 1/PK	Poly-V Groove Belt	Firmed	6/1/18	3 Ea	0 Ea	3 Ea	\$10.69/Ea	\$32.07
6	D3373-1P	1770A55	Cam Lock	Firmed	6/1/18	20 pcs	0 pcs	20 pcs	\$6.87/pcs	\$137.40
Line Item Note item MC MASTER 1770A525 KEYED ALIKE										
7	90592A032	25/pk	Hex Nut	Firmed	6/1/18	50 Ea	0 Ea	50 Ea	\$0.268/Ea	\$13.40
8	90685A046	50/pk	Hex Nut M10 X 1.5mm)	Firmed	6/1/18	50 Ea	0 Ea	50 Ea	\$0.211/Ea	\$10.55
9	90715A130	50/pk	Locknut	Firmed	6/1/18	50 Ea	0 Ea	50 Ea	\$0.1768/Ea	\$8.84
10	91166A250	100/pk	Flat Washer ØM6 receive ea	Firmed	6/1/18	100 Ea	0 Ea	100 Ea	\$0.025/Ea	\$2.50
11	91253A544	50/pk	Countersunk Screw receive pcs	Firmed	6/1/18	50 pcs	0 pcs	50 pcs	\$0.1572/pcs	\$7.86
12	91280A332	100/pk	Hex Head Bolt, Steel, M6 x 1 x 22mm Lg. receive ea	Firmed	6/1/18	100 Ea	0 Ea	100 Ea	\$0.1109/Ea	\$11.09
13	91420A120	100/pk	Flat Head Phillips Machine Screw	Firmed	6/1/18	100 Ea	0 Ea	100 Ea	\$0.0281/Ea	\$2.81

DAS
38
9-89



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO040051

Order Placed By
Chantal Lavoie

McMaster-Carr Number
4278566-03

Page 1 of 1

05/31/2018

Line	Product	Ordered	Shipped
1	8569K23 Film Made From Teflon PTFE, 6" Wide, 0.02" Thick, 10' Length	10 Feet	10
2	84735K117 Flexible Vinyl High-Temperature Push-on Round Caps for 1"-1-1/16" OD, 1-1/2" Inside Height, Packs of 50	2 Packs	2 <i>ST 586</i>
3	92198A111 18-8 Stainless Steel Hex Head Screw, 1/4"-28 Thread Size, 1-1/2" Long, Partially Threaded, Packs of 25	1 Pack	1 <i>ST 587</i>
5	9003K41 Ultra-Flexible Banded V-Belt, Trade Number 180J4, 18-5/16" Outer Circumference	3 Each	3
6	1770A525 Zinc Keyed Cam Lock, Nickel-Plated, Key #C420A for 7/64" Maximum Thickness, Clockwise	20 Each	20 <i>DAS 38 9-89</i>
7	90592A032 Steel Hex Nut, Medium-Strength, Class 8, M14 x 2 mm Thread, Packs of 25	2 Packs	2
8	90685A046 High-Strength Steel Hex Nut, Class 10, M10 x 1.5 mm Thread, Packs of 50	1 Pack	1
9	90715A130 316 Stainless Steel Nylon-Insert Locknut, Super-Corrosion-Resistant, 1/4"-28 Thread Size, Packs of 50	1 Pack	1
10	91166A250 Zinc-Plated Steel Washer for M6 Screw Size, 6.4 mm ID, 12 mm OD, Packs of 100	1 Pack	1
11	91253A544 Black-Oxide Alloy Steel Hex Drive Flat Head Screw, 1/4"-20 Thread Size, 1-1/4" Long, Packs of 50	1 Pack	1
12	91280A332 Medium-Strength Class 8.8 Steel Hex Head Screw, Zinc-Plated, M6 x 1 mm Thread, 22 mm Long, Packs of 100	1 Pack	1
13	92290A330 Super-Corrosion-Resistant 316 Stainless Steel Socket Head Screw, M6 x 1 mm Thread, 25 mm Long, Packs of 25	1 Pack	1
14	93325A340 Grade B7 Medium Strength Steel Threaded Rod, M14 x 2 mm Thread Size, 300 mm Long	30 Each	20
15	93615A432 18-8 Stainless Steel Low-Profile Socket Head Screws, 1/4"-28 Thread Size, 5/8" Long, Packs of 10	2 Packs	2
16	98381A503 Dowel Pin, Alloy Steel, 3/16" Diameter, 3/8" Long, Packs of 50	1 Pack	1

Shipped separately from our Chicago warehouse on 05/31

14	93325A340 Grade B7 Medium Strength Steel Threaded Rod, M14 x 2 mm Thread Size, 300 mm Long	30 Each	10
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